

Glass fiber fabric wallpaper

The invention relates to a glass fiber fabric wallpaper.

prior art glass

Q1
Q2
a
a
Glass fiber fabric wallpapers are known that are provided on the reverse ^{side} with an adhesive, which is applied as an aqueous dispersion. This ^{adhesive} permits initial adhesion when the glass fiber fabric wallpaper is mounted on a firm and dry substrate ^{such as a wall or long term}. Ultimate fixing of the glass fiber fabric wallpaper on the wall, however, requires a special adhesive paint which must be applied shortly after mounting to the side of the glass fiber fabric wallpaper facing away from the ^{adhesive of the} wall. Otherwise, the self-attaching glass fiber fabric wallpaper would within a short period become detached from the wall again.

A disadvantage with this self-attaching glass fiber fabric wallpaper is that, on the one hand, a special adhesive paint is necessary, so that wallpapering and painting is laborious and expensive. On the other hand, the fabric of the layer of glass fiber fabric wallpaper needs a particularly open structure so that the ^{special paint} adhesive is able to penetrate the glass fiber fabric wallpaper in order to allow the glass fiber fabric wallpaper to be fixed to the wall.

a
a
a
German reference *prior art*
DD-A-133 692 discloses a glass fiber fabric wallpaper which is provided on one side with an adhesive layer which must be moistened before the glass fiber fabric wallpaper is mounted on the wall, ^{The} since the adhesive is

00269771-034700

soluble in water and is tacky only in the moist state. As with a conventional glass fiber fabric wallpaper, there is the disadvantage that ~~after initial bonding~~

the glass fiber fabric wallpaper must dry out before it can be coated.

SUMMARY OF THE INVENTION

The technical problem on which the present

invention is based, then, is to develop and configure the

known glass fiber fabric wallpaper in such a way that

the wallpapering can be carried out more effectively and more rapidly.

Object is met

The above described problem is solved in accordance with the invention by a glass fiber fabric wallpaper which is provided on one side with a thermoplastic long-term adhesive. The long-term adhesive consists preferably of a water-

insoluble hot melt or pressure-sensitive hot melt adhesive.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

These are available commercially and are described,

for example, in Römpf Chemie-Lexikon, page 4037. Examples of

suitable hot melt adhesives are "Helmitherm 42034" from

Forbo-Helmitin GmbH, Pirmasens, "Tivolmelt 9058/30",

"Tivomelt 9041" and "Tivomelt 9162" from Tivoli Werke AG,

Hamburg, and "Technomelt Q 5304" from Henkel KGaA,

Dusseldorf. The ductile pressure-sensitive hot melt adhesives

feature particularly long bond times, contain no hazardous

ingredients, and are not self-igniting. They may also undergo

post-crosslinking. The long-term adhesive is applied by heat

treatment to one side of the glass fiber fabric and after

Insb2)

Insb3 a

~~cooling is permanently tacky.~~~~long-term~~~~The adhesive is applied in conventional manner, for~~~~example, by applying the adhesive melt by knife coater or~~~~rollers, so that the adhesive adheres only in dots at the~~~~raised points of the fabric. In respect of the amount and~~~~degree of fluidization, especially of the hot melt adhesive,~~~~the application process is designed so that no adhesive~~~~penetrates the glass fiber fabric and contaminates the glass~~~~fiber fabric wallpaper surface that is to be coated with~~~~paint, if desired. This is additionally assisted by the~~~~structure of the glass fiber fabric. Therefore, it is also~~~~possible to pretreat the glass fiber fabric wallpaper surface~~~~facing away from the wall so that after the glass fiber~~~~fabric wallpaper has been mounted it can be painted~~~~immediately without priming beforehand. This property as well~~~~leads to an acceleration and simplification of the~~~~wallpapering and painting operation.~~~~The self-adhesive glass fiber fabric wallpaper of~~~~the invention can also be sold in rolls in the manner~~~~customary for glass fiber fabric wallpapers; in that case, if~~~~necessary, Contamination of the facing side or sticking to~~~~to itself can be prevented by means of a release film which is~~~~made, for example, of polyethylene and is easily removable~~~~prior to use, or by means of a release paper, on the adhesive~~~~reverse of the wallpaper.~~

Insb4

~~may~~~~Premature of the facing side~~~~long-term~~~~Side~~~~a9~~

InsB5

in
a10

In contrast to the known self-attaching glass fiber fabric wallpapers the glass fiber fabric wallpaper of the invention is self-adhesive, i.e., it can be mounted on the wall without the use of an additional adhesive. The interrupted layer of thermoplastic long-term adhesive brings about durable fixing which by virtue of subsequent additional crosslinking, indeed, produces an increasingly stronger connection between the glass fiber fabric wallpaper and the wall.

InsB6

0926974.034700

in
a11

In comparison to the self-attaching glass fiber fabric wallpapers known from the prior art, the self-adhesive glass fiber fabric wallpaper of the present invention has a range of advantages. First of all, treating the surface of the wall beforehand is unnecessary. Existing wallpapers, provided they themselves are still attached well to the wall, may be used as a substrate for the new self-adhesive glass fiber fabric wallpaper. Following the mounting of the glass fiber fabric wallpaper, it can be painted immediately on the side facing into the room, since it is not necessary to wait until the long-term adhesive has dried. Therefore, the requirement of applying an adhesive to the reverse of the glass fiber fabric wallpaper is done away with, and there is no time delay between mounting and painting the glass fiber fabric wallpaper.

InsB7

a13

in
a14

Removal from the wall is readily possible because the affinity of the long-term adhesive to the wallpaper is higher than to the substrate.